As a below named inventor, I declare that:

My residence, Post Office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled METHOD AND APPARATUS FOR MAKING A CRYSTAL PREMELT.

The specification of which (check only one item below): x is attached hereto was filed as United States Application Serial No. on and was amended on (if applicable) was filed as PCT international application number , on , and was amended under PCT Article 19 on (if applicable). I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56. I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or 365(a) of any PCT international application which designated at least one country other than the Unites States, listed below and have also identified below any foreign application for patent or inventor's certificate, on the same subject matter, having a filing date before that of the application on which priority is claimed: Application No.: Country: Filing Date: П **NONE** I hereby claim the benefit under Title 35 United States Code § 119(e) and § 120 of any United States application(s) or 365(c) of any PCT international application designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 United States Code § 112, I acknowledge the duty to disclose material information as defined in Title 37 Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application: Provisional No.: Filed: Status: **Application No.:** Filed: **Status: PCT Application No:** Filed: Status: NONE

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor: Daniel W. Hawtof

Resident Address: 10427 North Road, Corning, NY 14830

Post Office Address: same

Citizenship: **United States**

DATE: 10/28/03 W. Hans

Full Name of Inventor: Nicholas LeBlond

6 JACOB DR, PAINTED POST, NY 14870 NC **Resident Address:**

75 1/2 W. Fourth Street, Corning, NY 14830 same

Post Office Address:

Citizenship: Canada

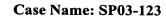
DATE: 10/28/03 Mc LeSlerd
Nicholas LeBlond

Full Name of Inventor: Christopher S. Thomas

89 Leskey Road, Horseheads, NY 14845 **Resident Address: Post Office Address:**

Citizenship: **United States**

DATE: 10/28/03



PATENT ASSIGNMENT COVER SHEET To the Honorable Commissioner of Patents and Trademarks: Please record the attached documents or copy thereof. (1) Conveying Party(ies): Daniel W. Hawtof Nicholas LeBlond Christopher S. Thomas Title: METHOD AND APPARATUS FOR MAKING A CRYSTAL PREMELT Additional name(s) of conveying party(ies) attached? Yes (2) Receiving Party: Corning Incorporated Patent Dept.; SP-TI-03-1 Corning, NY 14831 (3) Nature of conveyance: Assignment executed: 10/28/03 all (4) Application number(s) and/or patent number(s) against which this assignment is to be recorded: A. Patent Application No.(s): B. Patent No.(s): Filing date: Filing date: If this document is being filed together with a new application, this assignment is also to be recorded against said application, executed on 10/28/03 all. (5) Name and address of party to whom correspondence concerning document should be mailed: Name: Walter M. Douglas Reg. No.34,510 Corning Incorporated Patent Department SP-TI-03-1 Corning, NY 14831 Phone No.: 607-974-2431 (6) Total Number of applications and/or patents involved: one (7) Total Fee = \$40.00Enclosed (Check No.) Included with filing fee. Check No. __ Authorization given by Corning Incorporated to charge deposit account number 03-3325 (attached is a triplicate copy of this page) To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

William Paces

Walter M. Douglas 29 Octobra 2003

Revision: August 28, 2002

Total number of pages comprising cover sheet: 1

Attorney Docket No.: SP03-123

ASSIGNMENT

FOR VALUE RECEIVED, I, as a below named inventor, hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to a METHOD AND APPARATUS FOR MAKING A CRYSTAL PREMELT, such inventions being generally described in an application for Letters Patent of the United States executed on

and in any future patent applications claiming the benefit of the filing date of that application, and all the rights and privileges under any and all Letters Patents that may be granted therefore.

I request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

I agree that, when requested, I will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

I authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

(U.S. Regular Application)

County of Steuben)

Signed at Corning, NY, this hristopher S. Thomas Date State of New York) County of Steuben) On the <u>obliner</u> 2003, before me personally came **Daniel W. Hawtof** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same. Notary Public, State of New York **Notary Public** No 01GU6064116 Qualified in Chemung County State of New York) Commission Expires September 17 20 OS County of Steuben) On the 28 day of October 2003, before me personally came Nicholas LeBlond known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same. Notary Public TERRIL GUSTIN State of New York) Notary Public. State of New York No. 01GU6064116

On the 28 day of October 2003, before me personally came Christopher S. Thomas known to be the person

described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Attorney Docket No.: SP03-123

Qualified in Chemung County
Commission Expires September 17 20

TERRI L GUSTIN
Notary Public. State of New York
No 01GU6064116

Oualified in Cheming County
Commission Expires September 17 20 05

(U.S.) Attorney Docket No.: SP03-123

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Hawtof, et al

COMBINED

CERTIFICATE UNDER

37 C.F.R. § 3.73(b)

Serial No.: and

Filed: POWER OF ATTORNEY

For: METHOD AND APPARATUS FOR

MAKING A CRYSTAL PREMELT

Assistant Commissioner for Patents Washington, DC 20231

Applicant(s):

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)

CORNING INCORPORATED, a New York corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventor(s) of the patent application identified above. A true copy of the unrecorded Assignment is attached hereto.

The undersigned has reviewed the above referenced assignment of the patent application identified above and, to the best of the undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

(U.S.)

Attorney Docket No.: SP03-123

POWER OF ATTORNEY BY ASSIGNEE

CORNING INCORPORATED, the assignee of the full and exclusive right, title and interest in and to the accompanying application for United States Letters Patent entitled METHOD AND APPARATUS FOR MAKING A CRYSTAL PREMELT and executed by Daniel W. Hawtof, Nicholas LeBlond and Christopher S. Thomas, on <u>October 28, 2003</u>, or respectively, appoints the practitioners associated with the Customer Number provided below (i.e., the practitioners associated with the Intellectual Property Department, Corning Incorporated) to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Please direct all correspondence to Walter M. Douglas at the address associated with that Customer Number.

Customer Number: 22928

CORNING INCORPORATED

Date: October 29, 2013

Mark W. Lauroesch Assistant Secretary

ASSIGNMENT

Attorney Docket No.: SP03-123

FOR VALUE RECEIVED, I, as a below named inventor, hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to a METHOD AND APPARATUS FOR MAKING A CRYSTAL PREMELT, such inventions being generally described in an application for Letters Patent of the United States executed on

DATE OCTOBER 28, 2003

DATE OCTOBER 28, 2003

and in any future patent applications claiming the benefit of the filing date of that application, and all the rights and privileges under any and all Letters Patents that may be granted therefore.

I request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

I agree that, when requested, I will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

I authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Attorney Docket No.: SP03-123

Signed at Corning, NY, this	
16/23/03 Date	Daniel W. Haw &
10/20/2	11 1 - Ward
10100105	Me helloud
Date	Nicholas LeBlond
<u> 10/28/03</u>	(livolph & elem
Date	Christopher S. Thomas
State of New York)	
: ss.	
County of Steuben)	
On the 28 day of October	2003, before me personally came Daniel W. Hawtof known to be the person
described in and who executed the fore	going instrument, and acknowledged that they executed the same.
	Jusi & Huston
	Notary Public Notary Public, State of New York
	No 01GU6064116
State of New York)	Qualified in Cheming County Commission Expires September 17 20
: ss. County of Steuben)	CONTRACTOR OF THE CONTRACTOR O
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On the <u>do day</u> day of <u>UUDDE</u>	2003, before me personally came Nicholas LeBlond known to be the person going instrument, and acknowledged that they executed the same.
described in and who executed the fore	going instrument, and acknowledged that they executed the same.
	Juston
State of New York)	Notary Public TERRIL GUSTIN
: SS.	Notary Public, State of New York
County of Steuben)	No. 016U6064116 Qualified in Chemung County Commission Expires September 17 20
on the 28 th day of Or tiber 2	Commission Expires September 17 20 0.5 2003, before me personally came Christopher S. Thomas known to be the person
described in and who executed the fore	egoing instrument, and acknowledged that they executed the same.
	Juli V M. F.
	Notary Public
	TERRI I GUSTIN
	Notary Public. State of New York No. 01GU6064116
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